

### Abstract Of The Disclosure

A method for checking the safety and reliability of software-based electronic systems, using a reliability function for checking the functions of the system that are called for, based on the hardware components of the system required for this. In this connection it is provided that a  
5 reliability function is determined for calculating the reliability of at least one of the required functions of the system, and an additional reliability function is determined for calculating the reliability of at least one of the safety functions of the system, in the determination of these reliability functions, software components of the system being taken into consideration with the aid of hardware components onto which these software components are distributed. This  
10 makes possible the early valuation of different monitoring concepts for such systems, and of functions of these systems which are implemented by software and hardware.